

What is claimed is:

1. An apparatus for extracting liquid from a body of liquid, the apparatus comprising:
 - a) a conduit terminator operable to terminate a conduit, said conduit terminator having an inlet opening to facilitate conduction of liquid from said body of liquid;
 - b) a solid object diverter comprising at least one solid wall surrounding said inlet opening to define a liquid admitting cavity about said inlet opening to impede solid objects from entering said inlet opening while permitting entry of liquid into said cavity for admission into said inlet opening; and
 - c) a positioner operable to position said diverter in a position in said liquid body such that said cavity admits liquid from said body of liquid while said inlet opening admits liquid from said cavity.
2. An apparatus as claimed in claim 1 further comprising a housing for providing a passageway for directing liquid past the solid object diverter.
3. An apparatus as claimed in claim 2 wherein the solid object diverter is in the housing.
4. An apparatus as claimed in claim 3 wherein said housing has a wall defining a cavity opening for admitting liquid into said liquid admitting cavity.
5. An apparatus as claimed in claim 4 wherein said housing further defines a gas vent for permitting gas flow into and out of said liquid admitting cavity.

6. An apparatus as claimed in claim 4 wherein said positioner comprises floats on opposite sides of the diverter.
7. An apparatus as claimed in claim 2 further comprising a turbulence producing mechanism operable to produce a turbulent flow of liquid from said housing.
8. An apparatus as claimed in claim 7 wherein said turbulence producing mechanism comprises at least one blocking member disposed in an outlet end region of said housing.
9. An apparatus as claimed in claim 2 wherein said positioner comprises floats cooperating with the housing.
10. An apparatus as claimed in claim 2 wherein said housing has a floating object deflector.
11. An apparatus as claimed in claim 1 wherein said diverter has a hydrodynamic shape.
12. An apparatus as claimed in claim 11 wherein said hydrodynamic shape comprises a teardrop shape.
13. An apparatus as claimed in claim 2 further comprising a data acquisition unit for acquiring environmental data.
14. An apparatus as claimed in claim 9 wherein said floats have hydrodynamic shapes.
15. An apparatus as claimed in claim 14 wherein said floats comprise:
 - a) first and second outer fins extending outwardly from opposite sides of said housing at an inlet end region thereof, and extending rearwardly toward an outlet end region of said housing, substantially parallel with said sides; and

b) respective fin spacers extending outwardly from said sides and engaging with said respective fins to space said fins from said sides.

- 5 **16.** An apparatus as claimed in claim **15** wherein said floats further comprise a buoyant medium in a space defined between said fins and said side of said housing.
- 17.** An apparatus as claimed in claim **16** wherein at least one of said floats comprises a watertight control housing for containing a control unit within said at least one of said floats.
- 10 **18.** An apparatus as claimed in claim **2** further comprising a tether connector for tethering said apparatus to an object.
- 19.** A method of guiding fish, the method comprising disposing a plurality of apparatuses as defined by claim **1** in a body of water at a plurality of respective positions along a desired fish path.